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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/600,195	06/20/2003	Kenneth R. Levey	13842	7477
7590 01/21/2005			EXAMINER	
PAUL F. DONOVAN			MITCHELL, KATHERINE W	
ILLINOIS TOOL WORKS INC. 3600 WEST LAKE AVENUE GLENVEIW, IL 60025			ART UNIT	PAPER NUMBER
			3677	
			DATE MAILED: 01/21/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	10/600,195	LEVEY ET AL.				
Office Action Summary	Examiner	Art Unit				
	Katherine W. Mitchell	3677				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply if NO period for reply is specified above, the maximum statutory period we raillure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	i6(a). In no event, however, may a reply be time within the statutory minimum of thirty (30) days fill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nety filed s will be considered timety. the mailing date of this communication. O (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 18 Oc	<u>ctober 2004</u> .					
2a) This action is FINAL . 2b) ⊠ This	This action is FINAL . 2b)⊠ This action is non-final.					
•	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4) ☐ Claim(s) 19,1123 is/are pending in the application 4a) Of the above claim(s) 11-23 is/are withdraw 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-9 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or	n from consideration.					
Application Papers						
9) ☐ The specification is objected to by the Examiner 10) ☑ The drawing(s) filed on <u>02 October 2003</u> is/are: Applicant may not request that any objection to the or Replacement drawing sheet(s) including the correction 11) ☐ The oath or declaration is objected to by the Examiner 11.	a)⊠ accepted or b)□ objected drawing(s) be held in abeyance. See on is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).				
Priority under 35 U.S.C. § 119	,	•				
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 4 pages.	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal Pa					

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DETAILED ACTION

Election/Restrictions

1. Applicant's election with traverse of the species restriction in the reply filed on 10/18/2004 is acknowledged. The traversal is on the ground(s) that the search would not be burdensome. This is found only partially persuasive because the included limitations for the female member encompass search limitations not required for the male fastener. However, examiner does agree that the search for the male fastener would encompass the features of claims 1-9 without serious burden. Therefore, claims 1-9 will all be examined, not just elected claims 1,5,7, and 9.

The requirement is still deemed proper and is therefore made FINAL.

- 2. Claims 11-23 are withdrawn from further consideration pursuant to 37 CFR 1.142(b), as being drawn to a nonelected species, there being no allowable generic or linking claim. Applicant timely traversed the restriction (election) requirement in the reply filed on 10/29/2004.
- 3. Applicant is correct in referring to Fig 6, not Fig 5 as examiner mis-typed.
- 4. Applicant is reminded that if Claim 1, generic, is found allowable, the restriction requirement as to the encompassed species will be withdrawn. Once a restriction requirement is withdrawn, the provisions of 35 U.S.C. 121 are no longer applicable. See *In re Ziegler*, 44 F.2d 1211, 1215, 170 USPQ 129, 131-32 (CCPA 1971). See also MPEP § 804.01.

Information Disclosure Statement

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5. Foreign Ref DE 19848717 on IDS of 10/18/2004 was not in the case and could not be considered. A new IDS and fee is NOT required – only a copy of the patent.

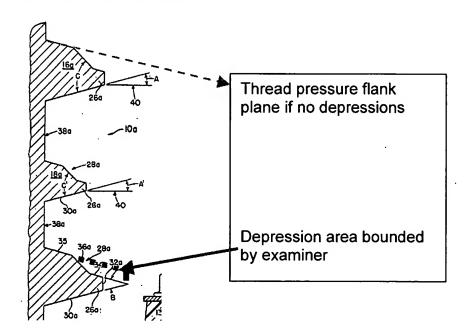
Examiner will list the patent on examiner's 892 once the patent is provided. Examiner notes for the record the exceptional job in disclosing relevant prior art.

Claim Rejections - 35 USC § 102

6. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 7. Claims 1,2,4, and 9 are rejected under 35 U.S.C. 102(b) as being anticipated by Barth et al USP 4576534.



Re claim 1: Barth teaches a threaded fastener comprising:

• A shank with head and leading ends (Fig 1)

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A head at said head end

A thread with an outer edge, a drive flank facing said lead end, and a
pressure flank facing said head end, said thread disposed about said
shank, and

A series of depressions formed in said pressure flank. (see marked up Fig
 2 below) along at least a portion of a length of said thread

Re claim 2: Fig 1 shows the depressions formed in the pressure flank substantially the length of the thread from lead to head end, with Figs 2- 3 showing a better detail of the depressions.

Re claims 4 and 9: Fig 2 shows the depressions extending inwardly along said pressure flank from said outer edge only part of a width of said pressure flank between shank and thread outer edge.

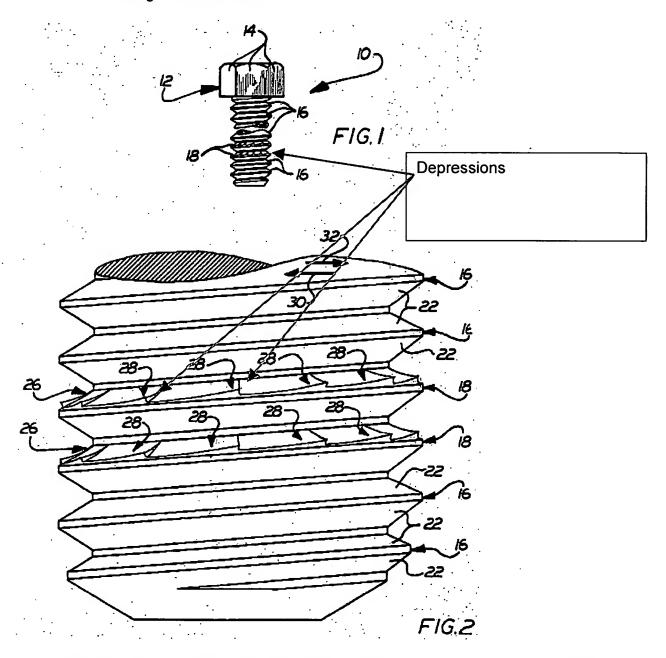
8. Claims 1,5,6, and 8 are rejected under 35 U.S.C. 102(b) as being anticipated by Capuano USP 4273175.

Re claim 1: Capuano teaches a threaded fastener comprising:

- A shank with head and leading ends (Fig 1)
- A head 14 at said head end
- A thread with an outer edge, a drive flank facing said lead end, and a
 pressure flank facing said head end, (Fig 1) said thread disposed about
 said shank, and

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a series of depressions (best seen in Fig 2) formed in said pressure
 (facing head) flank (see marked up Fig 2 below) along at least a portion of
 a length of said thread.



Re claim 5: Fig 1 shows the depressions absent on lengths of thread adjacent the head and adjacent the lead end.

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Re claims 6 and 8: Fig 2 shows the depressions extending from shank to outer thread edge.

9. Claims 1-3 are rejected under 35 U.S.C. 102(b) as being anticipated by Ollis Jr. et al. USP 3982575, hereafter called Ollis.

Re claim 1: Ollis teaches a threaded fastener comprising:

- A shank with head and leading ends (Fig 1)
- A head 14 at said head end
- A thread with an outer edge, a drive flank facing said lead end, and a
 pressure flank facing said head end, (Fig 1) said thread disposed about
 said shank, and
- a series of depressions (best seen in Fig 2 and 4) formed in said pressure (facing head) flank along at least a portion of a length of said thread.
 Depressions are the lower portion or root 32 of ramp 30.

Re claim 2: Depressions formed in the pressure flank substantially the length of the thread from lead to head end are described in col 2 lines 48-64, especially lines 60-62 disclose the serrations continuing to the underside of the head 14 from the lowermost thread, with Figs 2 and 4 showing a better detail of the depressions.

Re claim 3: The depressions extending from shank to outer thread edge are best seen in Figs. 2, 3 and 5.

10. Claims 1, 2,4,5, 7 and 9 are rejected under 35 U.S.C. 102(b) as being anticipated by Dickie USP 5044853.

Re claim 1: Dickie teaches a threaded fastener comprising:

- A shank with head and leading ends (Fig 1)
- A head 2 at said head end
- A thread with an outer edge, a drive flank facing said lead end 3, and a
 pressure flank facing said head end, (Fig 1) said thread disposed about
 said shank, and
- a series of depressions (recesses 6 in indentations, indentations also called valleys of the waves 13) (best seen in Fig 1 and 2) formed in said pressure (facing head) flank along at least a portion of a length of said thread.

Re claim 2: Depressions formed in the pressure flank substantially the length of the thread from lead to head end are described in col 2 lines 21-23, as being located over the entire area of the thread, i.e., even on the tip of the screw.

Re claim 5: Portions of the length of the thread adjacent the head end and adjacent the lead end having no depressions therein are taught in Fig 1 and col 2 lines 5-25. Examiner notes that applicant has claimed "said portion of said length" adjacent said head, referring back to a portion of the thread length, and also claimed "a further portion of said thread" when describing the threads adjacent the lead end having no depressions. Thus "a further portion of said thread" does not have to be a portion of thread length, but can be any portion of the thread adjacent the lead end.

Re claims 4 and 7 and 9: Fig 2 shows the depressions extending inwardly along said

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pressure flank from said outer edge only part of a width of said pressure flank between

shank and thread outer edge.

Conclusion

11. The prior art made of record and not relied upon is considered pertinent to

applicant's disclosure.

12. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Katherine W. Mitchell whose telephone number is 703-

305-6713. The examiner can normally be reached on Mon - Thurs 10 AM - 8 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, J. J. Swann can be reached on 703-306-4115. The fax phone number for

the organization where this application or proceeding is assigned is 703-872-9306.

13. Information regarding the status of an application may be obtained from the

Patent Application Information Retrieval (PAIR) system. Status information for

published applications may be obtained from either Private PAIR or Public PAIR.

Status information for unpublished applications is available through Private PAIR only.

For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free).

Katherine W Mitchell

Examiner

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Milling Milly

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